

THE
CONSTITUTION AND BYE-LAWS
OF THE
GEOLOGICAL SOCIETY
OF
PENNSYLVANIA.

TO WHICH IS ADDED,

A LIST OF THE OFFICERS AND MEMBERS OF THE SOCIETY.

PHILADELPHIA:
PRINTED BY JOSEPH AND WILLIAM KITE,
SEVENTH AND CARPENTER STREETS.

1834.

Hall of the Geological Society of Pennsylvania, November 27th, 1833.

Extract from the minutes.

"*Resolved*, That a committee be appointed for the purpose of remodelling the constitution of this society: Whereupon Henry S. Tanner, Saml. Snelling, Junr. and John Frost were appointed on said committee." And at a subsequent meeting of the society, it was further "*Resolved*, That the same committee be requested to cause five hundred copies of the constitution, as amended, to be printed, together with the bye-laws of the society."

In obedience to the foregoing resolutions, we beg leave to state, that the duty assigned us by these resolutions, has been performed; and that the printed Constitution and Bye-laws of the society, are now ready for distribution.

HENRY S. TANNER,
SAML. SNELLING, JUNR.
JOHN FROST,

Philadelphia, March 1st, 1834.

Committee.

CHARTER.



WHEREAS a number of persons, citizens of the Commonwealth of Pennsylvania, have associated for a literary purpose, and are desirous to acquire and enjoy the powers and immunities of a corporation or body-politic, in law; they have therefore prepared this instrument in writing, therein specifying the objects, articles, conditions, and name, style, or title under which they have associated.

First. The said society shall be forever hereafter called and known by the name, style or title of **THE GEOLOGICAL SOCIETY OF PENNSYLVANIA.**

Secondly. The object of the said society is declared to be to encourage and cultivate **GEOLOGY** and its associate sciences.

Thirdly. The officers of the society shall consist of one President, two Vice-Presidents, and as many more as the society shall, from time to time, deem necessary; one Treasurer, one Recording Secretary, one Corresponding Secretary, and such other officers as shall be provided for in the bye-laws. The officers shall be elected by ballot, on the last Wednesday of January in every year; provided always, that if any election shall not take place on that day, all the officers of the preceding year shall remain in office until a re-election shall take place, pursuant to the bye-laws.

The present officers are as follows:

John B. Gibson,	President.
Nicholas Biddle, }	Vice-Presidents.
Stephen H. Long }	
Peter A. Browne,	Corresponding Secretary.
H. Morrow,	Recording Secretary.
Henry S. Tanner,	Treasurer.
Sears C. Walker,	Librarian.
Geo. W. Featherstonhaugh, }	
Henry S. Tanner, }	Curators.
Richard Harlan,	

Fourthly. The society shall have full power and authority to make, have, and use, one common seal, with such device and inscription as shall be hereafter provided by the bye-laws; shall be able and capable in law to sue and be sued, plead and be impleaded, in as full and effectual a manner as any other corporation within this Commonwealth may or can do; shall be empowered to make bye-laws, rules and ordinances, and to do every thing needful for the good government and support of the affairs of the said society: provided, that the same bye-laws, rules and ordinances respectively, be not repugnant to the Constitution and Laws of the United States, the Constitution and Laws of this Commonwealth, and this Instrument.

Fifthly. The society shall be capable to take, receive and hold, all, and all manner of lands, tenements, rents, annuities, franchises and hereditaments, and any sum or sums of money, goods or chattels, given or bequeathed to them, provided that the clear yearly value or income of the same shall not exceed the sum of five hundred pounds.

Subscribed by order of the GEOLOGICAL SOCIETY OF PENNSYLVANIA.

JOHN BANNISTER GIBSON, President.

N. BIDDLE, }
S. H. LONG, } Vice-Presidents.

P. A. BROWNE, Cor. Sec.

H. MORROW, Rec. Sec.

I, Ellis Lewis, Attorney-General of the Commonwealth of Pennsylvania, do certify, that I have perused and examined the within instrument, and that, in my opinion, the objects, articles and conditions therein contained, are lawful. Witness my hand at Harrisburg, February the 2nd, A. D. 1833.

ELLIS LEWIS.

We, the Judges of the Supreme Court of Pennsylvania, hereby certify, that we have examined and perused the within instrument of writing, and concur in opinion with the Attorney-General, that the objects, articles and conditions therein set forth and contained, are lawful. Witness our hands the thirteenth day of March, Anno Domini, 1833.

JOHN B. GIBSON,
MOLTON C. ROGERS,
JOHN ROSS,
JNO. KENNEDY.

Pennsylvania, Eastern District, ss.

Be it remembered, that at a Supreme Court held at Philadelphia in and for the Eastern District of Pennsylvania, on the thirteenth day of March, in the year of our Lord one thousand eight hundred and thirty-three, before the Honourable John B. Gibson, Esquire, Chief Justice, and his Associate Justices of the Supreme Court of the Commonwealth of Pennsylvania, the within charter of incorporation was presented to the court, and duly allowed as therein set forth.

[L. S.] In witness whereof I have hereunto set my hand, and have caused the seal of the said Supreme Court to be affixed at Philadelphia, this sixteenth day of March, in the year of our Lord one thousand eight hundred and thirty-three.

Pro WM. DUANE, Pro'thy.

Stephen Payran, Jr.

PENNSYLVANIA, ss.

In the name and by the authority of the Commonwealth of
Pennsylvania.

GEORGE WOLF, Governor of the
said Commonwealth, to **Samuel
M’Kean**, Esquire, Secretary of
the said Commonwealth, sends
greeting:

GEO. WOLF.

WHEREAS, it has been duly certified
to me by **Ellis Lewis**, Esquire,
Attorney General of the said
Commonwealth, and by **John B.
Gibson**, Esquire, Chief Justice,
Molton C. Rogers, **John Ross**

[L. S.]

and **John Kennedy**, Esquires, Associate Justices of the Supreme Courts of Pennsylvania, that they have respectively perused and examined the annexed act or instrument for the incorporation of **The Geological Society of Pennsylvania**, and that they concur in opinion, that the objects, articles and conditions therein set forth and contained, are lawful.

Now know you, that in pursuance of an act of the General Assembly, passed the sixth day of April, in the year of our Lord one thousand seven hundred and ninety-one, entitled “An act to confer on certain associations of the citizens of this Commonwealth, the powers and immunities of corporations or bodies politic in law,” I have transmitted the said act, or instrument of incorporation unto you, the said **Samuel M’Kean**, Esquire, hereby requiring you to enrol the same, at the expense of the applicants, to the intent that, according to the objects, articles and conditions therein set forth and contained, the parties may become and be a corporation and body politic in law and in fact, to have continuance by the name,

style and title, in the said instrument provided and declared.

Given under my hand and the Great Seal of the State, at Harrisburg, this twenty-sixth day of March, in the year of our Lord one thousand eight hundred and thirty-three, and of the Commonwealth the fifty-seventh.

By the Governor,

S. M'KEAN,

Sec'ry Com'th.

CONSTITUTION.

ADOPTED JANUARY 8TH, 1834.



ARTICLE I.

WHEREAS a number of persons have associated for the purpose of promoting and diffusing Geological knowledge,—

1. By collecting, digesting and publishing for their individual use and that of the public at large, at convenient intervals, and by such means as shall be hereafter determined, such new, interesting and useful facts and discoveries in Geology as may be acquired by their joint efforts :

2. By the gradual accumulation of the most approved books, maps, specimens, and all such documents and materials as shall best elucidate the science in all its parts, and to convey the most authentic information on subjects in any manner connected with Geology and its sister sciences :

3. By preparing brief instructions for members of this society, or others, who design to visit distant parts of the state, pointing out those sections which are most likely to reward the geological inquirer in his researches, the phenomena to be observed, the most desirable specimens to be procured, directing their attention to the acquisition of such information generally as may tend to enlarge the sphere of our geological knowledge :

4. By affording pecuniary or other assistance to such travellers or surveyors as may require it, and as the society may, from time to time, direct, in order to facilitate the attainment of any particular object of research :

5. By corresponding and communicating with similar societies abroad, and with scientific individuals engaged in geological investigations, every where :

6. By inviting communications, either speculative or practical, from members and others, qualified to furnish contributions on subjects connected with the leading objects of the institution; and

7. By causing the formation of auxiliary societies in the several counties of the state, or by accepting, as such, the co-operation of societies already established.

ARTICLE II.

Wherefore the said persons, and all such as shall hereafter become members of this association, shall form a society which shall be hereafter called and known as the **GEOLOGICAL SOCIETY OF PENNSYLVANIA.**

ARTICLE III.

The officers of the society shall consist of one President; one Vice-President for the City of Philadelphia, one Vice-President for the County of Philadelphia, one Vice-President for each of the other counties of the state in which auxiliary societies are or shall be established, each of whom shall be President of the society of his respective county, and shall enjoy all the privileges of a member of the parent institution; one Treasurer; one Recording Secretary; one Corresponding Secretary, and such other officers as shall be provided for in the bye-laws.

ARTICLE IV.

The officers of the society shall be elected by ballot, on the last Wednesday of January in each year; provided always, that if any election shall not take place on that day, all the officers of the preceding year shall remain in office until an election shall take place pursuant to the bye-laws.

ARTICLE V.

The times of stated meetings of the society, amount of con-

tributions from members, and all other matters relating to the local government of the society, shall be determined by the bye-laws.

ARTICLE VI.

No alteration or change whatsoever in this constitution shall be valid, unless proposed at one close meeting, and acted on at the next subsequent close meeting of the society, and adopted by a majority of three-fourths of the members present. Notice of any proposed alteration shall be given in two of the daily papers of the City of Philadelphia.

ARTICLE VII.

The foregoing constitution shall be in force from and after the eighth day of January, 1834, when the constitution adopted at the formation of the society in 1831, shall be, and the same is hereby cancelled and made of non-effect.

BYE-LAWS.



1.—STATED MEETINGS.

The stated open meetings of this society, at which strangers may be admitted, shall be held every Wednesday evening at the society's rooms, unless otherwise ordered by the society; except on the last Wednesday evening of every month, when there shall be held, at the same time and place, a close meeting, to which strangers shall not be admitted. At such close meetings, all elections shall be held, the pecuniary affairs of the society discussed, as well as any other private affairs of the society, not of a scientific character.

2.—SPECIAL MEETINGS.

Special meetings may be called at any time, at the request of three members, addressed in writing to the recording secretary, stating also the proposed object of the meeting.

3.—ORGANIZATION OF THE MEETINGS.

As soon as five members shall be present, that number shall constitute a quorum. The president, (or in his absence, one of the vice-presidents for the city or county of Philadelphia, or in their absence, a chairman, to be chosen for the occasion, and to act during the absence of the president or vice-presidents, for the evening,) shall take the chair, and call the members to order.

4.—PRESIDING OFFICER.

Any member present, who is vice-president of any other

county, shall be eligible to be chosen as chairman, upon any occasion when the officers mentioned in the third bye-law shall not be present, but shall not preside *ex officio*.

5.—ORDER OF BUSINESS.

At stated and adjourned meetings, the following order shall be observed in the transaction of business on public evenings.

1. The minutes of the preceding meeting shall be read.
2. The minutes may be corrected upon motion of a member when seconded.
3. Outstanding committees shall be called over. •
4. Reports of committees shall be read according to their priority.
5. When committees are not ready to report, the chairman of such committees shall give the reason in writing to the chair, if required.
6. Communications from members present shall be read.
7. Communications from persons not present, and coming from the corresponding secretary, shall be read.
8. Donations shall be presented.
9. Unfinished business may be called up and proceeded in.
10. Supplementary business may be entered upon, and information from the chair required.
11. The minutes of the meeting shall be read and corrected previous to adjournment.

6.—ORDER OF BUSINESS AT SPECIAL MEETINGS.

At special meetings, after reading the minutes of the preceding meeting, the members shall proceed to the consideration of the especial business which brings them together, and no other business shall be then considered, except with the consent of two-thirds of the members present.

7.—ALTERATION OF BYE-LAWS.

No bye-law shall be altered, repealed or enacted, save at a

meeting subsequent to that at which notice to alter, repeal or enact shall be given.

8.

No bye-law shall be altered, repealed or enacted, but by a vote of two-thirds of the members present.

9.—PUBLICATIONS.

No paper, communication, map, chart, section or original document, belonging to this society, shall be published, either partially or fully, without the authority of this society.

10.—DUTIES OF THE RECORDING SECRETARY.

The recording secretaries shall take the minutes of the proceedings of the society at each meeting, and shall copy them neatly and accurately into the society's minute-book, previous to the next meeting. They shall also give immediate notice to new resident members of their election, and shall advertise every meeting of the society, in two of the daily papers of this city, the day previous to the evening of its meeting, if the same can be done without expense to the society. The business papers and minutes and minute-book of the proceedings of the society, shall be in the custody of these secretaries, and shall be kept in the society's rooms, subject to the inspection of the members only.

11.—DUTIES OF THE CORRESPONDING SECRETARY.

The corresponding secretary shall keep the correspondence of the society with persons not residing in Philadelphia, and shall lay before the society at each meeting, a list of the letters and communications addressed to the society, with the subjects of each, and which he shall have received since the last meeting, so that, upon motion of any member, the reading of any particular letter or communication may, by preference, be ordered by the chair. He shall also give immediate notice

to new non-resident members of their election. All communications of a scientific character, that have been presented to the society through this secretary shall be in his custody, and shall be kept in the society's rooms, subject to the inspection of the members only.

12.—DUTIES OF THE CURATORS.

There shall be three curators chosen by the society, by a majority of voices, for one year. It shall be the duty of the curators to take charge of, and preserve, all the mineral collections of the society, affixing a conspicuous label to each specimen, indicating its nature, and the locality it came from. All donations made to the society, of geological or mineralogical specimens, shall be immediately delivered over to the curators, to be examined, and shall be entered in the book of donations, with the nature and locality of the mineral, and the name of the donor. The curators shall have authority to construct such cases, fixtures, and other conveniences necessary to the preservation of the society's collections, as they may deem proper and expedient. The order and arrangement of the same in the cabinet of the society is also entrusted to them. They shall also provide fuel and candles and writing materials for the use of the society. The donation-book shall be laid before the society when called for by any member.

13.—DUTIES OF THE LIBRARIAN.

There shall be one librarian, whose duty it shall be to take charge of all books, maps, charts, sections and similar documents. All these objects shall be entered by him in a catalogue with their respective titles, and the names of the donors, where presents shall have been made to the society.

14.—DUTIES OF THE TREASURER.

The treasurer shall receive all subscriptions and moneys due to the society, and shall pay from the funds in his posses-

sion all orders on account of the society, which shall be certified by the presiding officer who was in the chair when the order was made. He shall keep a regular account of all the moneys received and paid by him, and annually, or oftener if required by the society, shall render to the society an account of its funds, and the disbursements made by their order. He shall also deliver up to his successor, all books and papers, together with the balance of cash belonging to the society. And for greater security to the society, and satisfaction to the members, he shall execute a bond with surety, to the president or vice-presidents of the society, in double the amount of the sum which he may probably become entrusted with during the term for which he may be elected.

15.—COMMITTEE OF INSPECTION.

A committee shall be appointed at the close of the year, to inspect the papers, collections, library, and other property of the society, and shall audit the treasurer's accounts, and report to the society at the first meeting after the annual election, the general state of the society's affairs.

16.—ELECTION OF OFFICERS.

The annual election of officers of this society shall take place on the first close meeting in every year, and shall be by ballot; but if no election shall take place on that day, the officers of the preceding year shall remain in office until successors are duly elected. Any member may nominate another member of this society for any office. The names of the candidates shall be written over the boxes into which the balls are to be dropped, and it shall require a majority of the votes given to constitute an election. In case of an intermediate vacancy of any office, it shall be competent for any member to move that the vacancy be filled at the next close meeting, when the election shall be conducted as at the annual election for officers.

17.—NOMINATION FOR MEMBERSHIP.

No person shall be proposed to be elected as a member of the society, but on the written recommendation of at least three members, to be delivered to the chair, at a close meeting, at least a month before the election. No person shall be elected as a member for whom the balloting has been deferred twice, unless he is again nominated.

18.—BALLOTING FOR NEW MEMBERS.

The following shall be the order of the election. At the close of the evening's business, the president shall announce that a member or members are about to be ballotted for, upon which it shall be competent for any member to rise and speak of the character and qualifications of the proposed candidate. The recording secretary shall then call the names of the members present, in the order they are placed in the minutes, and each member when called, the ballot-box being properly prepared, shall put in a ballot. A white ball shall be in favour of the candidate, a black ball shall be against him; as soon as the balloting is over, the box shall be opened by the presiding officer, and the state of the poll declared. If one-third of the members present have put in black balls, the candidate shall be declared not elected. If more than two-thirds of the members present have put in white balls, the candidate shall be declared elected, and his name enrolled as a member of the Geological Society of Pennsylvania. It is enjoined upon the members of the society not to mention the fact of any candidate's being rejected.

19.—APPOINTMENT OF COMMITTEES.

Committees shall be chosen by the society, and no committee shall consist of less than three members. No member of the society shall nominate, or second, more than one member of any committee. The first member chosen shall be chairman of the committee. The question shall be put on each

member separately. A majority of any committee shall be a quorum.

20.—DISCHARGE OF COMMITTEES.

It shall be competent for the society, on motion made and seconded, to discharge any committee for causes shewn, and to elect another committee in its place.

21.—REPORTS OF COMMITTEES.

Reports of committees shall be in writing, and shall be signed by a majority of the members agreeing thereto. The period of reporting shall be fixed by the society.

22.—COMMITTEE OF PUBLICATION.

A committee shall be appointed who shall superintend the publication of all papers that shall be submitted to them by the society.

23.—ANNUAL CONTRIBUTIONS.

Members shall pay to the treasurer, at the first meeting after their election, the sum of five dollars, besides an annual contribution of five dollars, to be paid at the expiration of the year from the date of their election. No contribution or initiation fee shall be required from non-resident or corresponding members. It shall be competent for the society to elect honorary members, from whom no contributions shall be required. Nevertheless, any member who shall pay into the hands of the treasurer the sum of thirty dollars as a commutation for life, shall not be subject to any further contributions.

24.—QUALIFICATIONS FOR VOTING.

No resident member shall be permitted to vote at the annual election, who shall be in arrear for his contributions; and where the annual payments of any member are three years in arrear, it may be in order for any of the members to move to strike out his name, and such motion being seconded and carried, his name shall be stricken from the list.

25.—LIBRARY.

Members who desire to use any books belonging to the society, must signify their wishes to the chair at the close of the evening's business, when the chairman, at his discretion, will direct the librarian to deliver one volume of any particular work, to be kept one week. The permission to retain it another week may be obtained if it is not inexpedient. The librarian will take an account of books thus delivered.

26.—INTRODUCTION OF VISITERS.

Members shall have the privilege of admitting their friends to the society's rooms, to examine its collections. Visitors may also be introduced by members, at the society's open meetings. They are to be introduced to the chair, and their names mentioned in the minutes.

27.—DEPOSITS.

Persons who deposit any fossils, minerals, subjects of comparative anatomy, books, maps, charts, or any other objects of value in the cabinet of this society, shall have a receipt for the same from the curators. It shall be the duty of the curators to keep them under lock and key, and to permit no person to take any object whatever from the society's rooms, which has been deposited, except upon an order in writing from the proprietor of such object.

28.—PROFESSORSHIPS.

It shall be competent to the society to institute chairs of professorships on subjects connected with geology.

29.—EXPULSION OF MEMBERS.

If any member be charged with dishonourable conduct, and shall be found guilty by the society, he shall be expelled, three-fourths of the members voting for his expulsion.

30.—SEAL.

The society shall have a seal with an appropriate device.

RULES OF ORDER.



1.

No debate shall be allowed but on motion made and seconded. Motions shall be reduced to writing by members making them, if required by the chair or by any member.

2.

When a member speaks, he shall stand up and address the chair.

3.

The chairman alone shall call a member to order for deviating from the subject under discussion. The member shall be seated while the chairman addresses him. The member may appeal to the society, and the decision must be made without debate.

4.

No member shall speak more than twice on the same question, without obtaining leave from the society.

5.

While a motion is under debate, no other motion shall be entertained, except to divide, amend, postpone, or adjourn the question.

6.

A reconsideration of a vote may be had, on motion made and seconded, provided the members requesting a reconsideration voted in the first instance in the majority.

7.

Motions to adjourn shall have preference over all business,

when seconded, and shall be decided without debate; the minutes being read previous to the separation of the members.

8.

No motion under discussion shall be withdrawn, without the consent of a majority of the members present.

9.

The presiding member shall not vote except in the case of a tie or equality of votes, or where the vote is taken by ballot.

10.

Members who intend to address the society on scientific subjects, shall, as soon as the order of business is over, express their intention to do so, to the chair, stating the nature of the subject they intend to bring under the consideration of the society.

11.

It shall be in order for any member, when the society has been so addressed, to answer any addressing member as soon as he has finished.

12.

Visitors may be allowed to address the society, at the instance of the presiding member.

OFFICERS FOR THE YEAR 1834.

<i>President,</i>	ANDRES DEL RIO.
<i>Vice-President for the City of Philadelphia,</i>	H. S. TANNER.
<i>Vice-President for the County of Philadelphia,</i>	S. H. LONG.
<i>Corresponding Secretary,</i>	RICHARD HARLAN, M. D.
<i>Recording Secretary,</i>	J. M. BREWER.
<i>Assistant Recording Secretary,</i>	N. C. SINQUET.
<i>Treasurer,</i>	CLEMENTS S. MILLER.
<i>Librarian,</i>	S. C. WALKER.
<i>Curators,</i>	R. HARLAN, JACOB GREEN, WILLIAM F. CLEMSON.

RESIDENT MEMBERS.

E. Atherton,	John B. Gibson,
Peter A. Browne,	Ed. Bird Grubb,
Clement C. Biddle,	Jacob Green,
Henry Baldwin,	B. Gardell,
David P. Brown,	Richard Harlan, M. D.
John M. Brewer,	William H. Hanson,
Nicholas Biddle,	Joseph Hildeburn,
Hartman Bache,	Daniel Houtz,
Daniel Brainard,	John Hallowell,
Horace G. Browne,	Thomas Harris, M. D.
M. E. D. Browne,	S. P. Heintzelman,
Samuel Colhoun, M. D.	E. Y. Howell, M. D.
Joseph R. Chandler,	William Jones,
George Carpenter,	James R. Jackson,
William F. Clemson,	G. L. Johnson,
M. M. Carll,	William H. Keating,
Clarke,	John Kennedy,
W. H. Dillingham,	Stephen H. Long, Lt. Col.
James Dickson,	U. S. A.
James P. Espy,	Isaac Lea,
G. W. Featherstonhaugh,	William Lee,
Sam. S. Fitch,	Samuel M'Clellan, M. D.
Thomas Fisher,	John K. Mitchell, M. D.
John Frost,	Daniel Marven,
George Fox,	Joseph M'Irvine,

Hugh Maxwell,
 Hugh Morrow,
 George M'Clellan, M. D.
 George Merrick,
 William Mason,
 Alva Mason,
 Clements S. Miller,
 John Miles,
 William Norris Jun.
 Charles A. Poulson,
 Granville Sharp Pattison,
 M. D.
 Isaac Parrish, M. D.
 Joseph Parrish, M. D.
 John Revere, M. D.
 Gerard Ralston,
 James J. Rush,

Molton C. Rogers,
 Henry Rogers,
 George P. Rex,
 Noah C. Sinquet,
 Samuel B. Swett,
 John Sergeant,
 R. W. Sykes,
 Samuel Snelling, Junr.
 Henry S. Tanner,
 B. M. Thomas,
 Joseph Thomas,
 Richard C. Taylor,
 Turner,
 Sears C. Walker,
 John P. Wetherill,
 Nathaniel A. Ware,
 John Wilson.



CORRESPONDING MEMBERS.

T. Philips Allen,
 J. J. Abert, Washington,
 D. C.
 James Allison, Beaver co. Pa.
 G. W. Ayres, Butler co. Pa.
 Dr. Buckland, Oxford, Eng.
 M. Adolph Brongniart, Paris.
 Alexander Brongniart, Paris.
 George B. Browne,
 Eliphalet L. Benedict, Mifflin
 co. Pa.
 Thomas Clemson, Paris.
 A. Chapman, Bucks co. Pa.
 Samuel Clavenger, Green co.
 Pa.
 R. Cunningham, Lancaster,
 Pa.
 Thos. S. Cunningham, Mer-
 cër co. Pa.
 Richard Colter, Westmore-
 land co. Pa.

M. Dufreynoi, Paris.
 F. L. Dancy, U. S. A.
 Daniel Drake, M. D. Cincin-
 nati.
 James Dunlop, Franklin co.
 Pa.
 Joseph Eastbrook, Knoxville,
 Tenn.
 G. A. Elliot, Erie co. Pa.
 Samuel Fowler, M. D. Sus-
 sex, N. J.
 John L. Fuller, Adams co. Pa.
 Walter Forward, Pittsburg,
 Pa.
 Chauncey Forward, Somer-
 set co. Pa.
 R. Falconer, Warren co. Pa.
 Thomas Gordon, Trenton,
 N. J.
 J. D. Graham, U. S. A.
 Alexander Humboldt, Paris.

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|-------------------------------|--------------------------------|
| Joseph Howard, | Thomas M'Giffon, Washing- |
| J. Hamilton, Cumberland co. | ton co. Pa. |
| Pa. | Calvin Mason, York, Pa. |
| Dr. Henderson, Huntingdon | John Norris, Tioga co. Pa. |
| co. Pa. | William B. Powell, Balti- |
| Samuel P. Hepburn, North- | more. |
| umberland co. Pa. | Peck, Vermont. |
| Thomas Irvine, Fayette co. | Hardeman Philips, Philips- |
| Pa. | burg, Pa. |
| William Jackson, Westches- | Robert H. Rose, Susquehanna |
| ter, Pa. | co. Pa. |
| Professor Jamieson, Edin- | Matthew Rhea, Tennessee. |
| burgh. | J. S. Riddle, Crawford co. Pa. |
| P. C. Johnston, Virginia. | Jonathan Roberts, Montgo- |
| Edwin James, Albany, N. Y. | morey co. Pa. |
| Charles Kinsey, Bergen, N. J. | Dr. Adam Sedgwick, Cam- |
| Geo. D. B. Keim, Reading, | bridge, Eng. |
| Pa. | Dr. Swift, Northampton co. |
| A. M. Lea, U. S. A. | Pa. |
| Daniel Lammot, Delaware | Sylvanus Thayer, |
| co. Pa. | Gerard Troost, Tennessec. |
| John Lashelles, Union co. Pa. | Joseph Thomas, Pottsville, |
| Gideon Mantell, Lewes, Eng. | Pa. |
| R. J. Murcheson, London. | Jason Torrey, Wayne co. Pa. |
| Eliphalet Mason, Bradford | William Watson, Bedford co. |
| co. Pa. | Pa. |
| A. M'Calmont, Venango co. | |
| Pa. | |

HONORARY MEMBERS.

- | | |
|-----------------------|--------------------------|
| William P. C. Barton, | Andres Del Rio, |
| Timothy A. Conrad, | Charles Pickering, M. D. |

PRESIDENTS OF COUNTY SOCIETIES, AUXILIARY TO THE
GEOLOGICAL SOCIETY OF PENNSYLVANIA.

Adams County.

John L. Fuller.

Alleghany County.

Walter Forward.

Berks County.

George D. B. Keim.

Beaver County.

James Allison.

Butler County.

G. W. Ayres.

Bedford County.

William Watson.

Bradford County.

Eliphalet Mason.

Bucks County.

A. Chapman.

Chester County.

William Jackson.

Cumberland County.

J. Hamilton.

Crawford County.

J. S. Riddle.

Centre County.

Hardeman Philips.

Delaware County.

Daniel Lammot.

Erie County.

G. A. Elliot.

Franklin County.

James Dunlop.

Fayette County.

Thomas Irvine.

Green County.

Samuel Clavenger.

Huntingdon County.

Dr. Henderson.

Lancaster County.

R. Cunningham.

Montgomery County.

Jonathan Roberts.

Mercer County.

Thomas S. Cunningham.

Mifflin County.

Eliphalet L. Benedict.

Northampton County.

Dr. Swift.

Northumberland County.

Samuel P. Hepburn.

Schuylkill County.

Joseph Thomas.

Somerset County.

Chauncey Forward.

Susquehanna County.

Robert H. Rose.

Tioga County.

John Norris.

Union County.

John Lashelles.

Venango County.

A. M'Calmont.

Washington County.

Thomas M'Giffon.

Wayne County.

Jason Torrey.

Westmoreland County.

Richard Colter.

Warren County.

R. Falconer.

York County.

Calvin Mason.